Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

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April 1st, 2010 Renesas Electronics Corporation

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HITACHI MICROCOMPUTER TECHNICAL UPDATE

DATE	17 January 2002	No.	TN-SH7-393A/E		
THEME	SH7706 Electrical Characteristics change				
CLASSIFICATION	■ Spec change □ Supplement of Documents	tation on Use			
PRODUCTNAME	HD6417706				
REFERENCE			Effective Date Permanent		
DOCUMENTS	SH7706 Hardware manual Rev.1.0		Lot No.: All		

There are some changes of Electrical characteristics in SH7706 hardware manual.

1. AC characteristics

Itam	Symbol	Before	change	After o	T I.a.:4	
Item		Min	Max	Min	Max	Unit
Read data hold time 2	tRDH2	1		2	_	ns
Write data delay time 1	tWDD1		14		12	ns
RAS delay time	tRASD	1	10	1.5	10	ns
CAS delay time	tCASD	1	10	1.5	10	ns
AUDATA delay time	tAUDD		10		12	ns
AUDSYNC delay time	tAUSYD	_	10	_	12	ns

2. DC characteristics

Item		Symbol	Before change			After change			Unit
			Min	Тур	Max	Min	Тур	Max	Unit
Current	In sleep mode	Icc		10	20		15	30	mA
		IccQ	_	15	30		10	20	mA
	In standby	Icc		40	120		40	125	μΑ
dissipation	mode(RTC on)	IccQ		10	30		10	25	μΑ
	In standby	Icc		35	110		35	110	μΑ
	mode(RTC off)	IccQ		10	30	_	10	25	μΑ

3. A/D converter characteristics

Item	Before change			After change			Unit
Item	Min	Тур	Max	Min	Тур	Max	Oilit
Conversion time	8.1			16		_	μS

1/E